

NSLS OHSAS Job Risk Assessment

The only official copy of this file is the one on-line in the NSLS ESH website. Before using a printed copy, verify that it is the most current version by checking the document issue date on the NSLS ESH website.

Name(s) of Risk Team Members: J. Aloï, D. Carlson, S. Cheung, B. Chmiel, B. Kiss	Point Value → Parameter ↓	1	2	3	4	5
Job Title: Mechanical Material Handling Job Number or Job Identifier: LS-JRA-0019	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
Job Description: The moving, positioning, installation and removal of equipment and components with the aid of mechanical lifting devices.	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training and Procedure List (Optional):	Likelihood (D)	Extremely Unlikely <<1x/20yrs	Unlikely 1x/10-20yrs	Possible >1x/10-20yrs	Probable 1x/yr	Multiple >1x/yr
Approved by: W.R. Casey Date: 8/19/05 Rev. # 1 Revision Log						
Stressors (if applicable, please list all):		Reason for Revision (if applicable):			Comments:	

		Before Controls							After Initial Controls						After Additional Controls					
Job Step / Task	Hazard	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Initial Controls	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Select rigging equipment, move to and from load area, connect to load and lifting device.	Overexertion injuries – excessive lifting, pushing, pulling, holding or carrying.	N	1	3	2	2	12	Proper lifting techniques, Back safety training	1	3	2	1	6							
	Falls to same level, tripping while carrying items	N	1	3	2	3	18	Housekeeping, Tier I	1	3	2	2	12							

NSLS OHSAS Job Risk Assessment

The only official copy of this file is the one on-line in the NSLS ESH website. Before using a printed copy, verify that it is the most current version by checking the document issue date on the NSLS ESH website.

Job Step / Task	Hazard	Before Controls						Initial Controls	After Initial Controls					Control(s) Added to Reduce Risk	After Additional Controls					
		Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
	Cuts and abrasions	N	1	3	1	3	9	Use of gloves	1	3	1	2	6							
Improper selection of rigging equipment	Being struck by dropped object	N	1	3	5	2	30	Crane training, Safety shoes, hard hat	1	3	5	1	15							
Using overhead electric cranes to lift load	Being struck by dropped object	N	1	3	5	3	45	Crane training, Safety shoes, hard hat, equipment inspections, known weight of load	1	3	5	2	30							
	Striking personnel with load or crane hook	N	1	3	3	3	27	Crane training, Safety shoes, hard hat,	1	3	3	2	18							
Using overhead electric cranes to travel with lifted load	Being struck by dropped object	N	1	3	5	3	45	Crane training, Assistant Operator, Safety shoes, hard hat, equipment inspections, audible warning on crane trolley, known weight of load	1	3	5	2	30							
	Striking personnel with load or crane hook	N	1	3	3	3	27	Crane training, Assistant Operator, Safety shoes, hard hat, audible warning on crane trolley, verify clear path of travel	1	3	3	1	9							
Using overhead manual cranes to lift load	Being struck by dropped object	N	1	3	5	3	45	Crane training, Safety shoes, hard hat, equipment inspections, known weight of load	1	3	5	2	30							

NSLS OHSAS Job Risk Assessment

The only official copy of this file is the one on-line in the NSLS ESH website. Before using a printed copy, verify that it is the most current version by checking the document issue date on the NSLS ESH website.

Job Step / Task	Hazard	Before Controls						Initial Controls	After Initial Controls					Control(s) Added to Reduce Risk	After Additional Controls					
		Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
	Striking personnel with load or crane hook	N	1	3	3	3	27	Crane training, Safety shoes, hard hat	1	3	3	2	18							
Using overhead manual cranes to travel with lifted load	Being struck by dropped object	N	1	3	5	3	45	Crane training, Assistant Operator, Safety shoes, hard hat, equipment inspections, known weight of load	1	3	5	2	30							
	Striking personnel with load or crane hook	N	1	3	3	3	27	Crane training, Assistant Operator, Safety shoes, hard hat, verify clear path of travel	1	3	3	1	9							
Using overhead pneumatic cranes to lift load (U4IR)	Being struck by dropped object	N	1	3	5	3	45	Crane training, Safety shoes, hard hat, equipment inspections, known weight of load	1	3	5	2	30							
	Striking personnel with load or crane hook	N	1	3	3	3	27	Crane training, Assistant Operator, Safety shoes, hard hat, audible warning on crane trolley, verify clear path of travel	1	3	3	1	9							
	Being struck by object (air pressure)	N	1	2	4	3	24	Training, equipment inspection	1	2	4	2	16							
Using overhead pneumatic cranes to travel with lifted load (U4IR)	Being struck by dropped object	N	1	3	5	3	45	Crane training, Assistant Operator, Safety shoes, hard hat, equipment inspections, known weight of load	1	3	5	2	30							

NSLS OHSAS Job Risk Assessment

The only official copy of this file is the one on-line in the NSLS ESH website. Before using a printed copy, verify that it is the most current version by checking the document issue date on the NSLS ESH website.

Job Step / Task	Hazard	Before Controls						Initial Controls	After Initial Controls					Control(s) Added to Reduce Risk	After Additional Controls					
		Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Using overhead pneumatic cranes to travel with lifted load (U4IR)	Striking personnel with load or crane hook	N	1	3	3	3	27	Crane training, Assistant Operator, Safety shoes, hard hat, verify clear path of travel	1	3	3	1	9							
Inspect fork truck prior to use	Cuts and abrasions	N	1	3	1	3	9	Use of PPE (gloves, hard hat, safety glasses)	1	3	1	2	6							
Operation of disconnects and circuit breakers	Electrocution		1	3	5	5	75	Proper grounding, proper equipment design (NRTL approved)	1	3	5	1	15							
	Electrical Shock		1	3	3	5	45	Proper grounding, proper equipment design (NRTL approved)	1	3	3	1	9							
	Arc Flash		1	3	5	5	75	Training, proper grounding, proper equipment design (NRTL approved) , NFPA 70E compliant PPE, standards & procedures	1	3	4	1	12							
Operation of disconnects and circuit breakers	Reflex Injury		1	3	5	5	75	Proper grounding, proper equipment design (NRTL approved)	1	3	5	1	15							

NSLS OHSAS Job Risk Assessment

The only official copy of this file is the one on-line in the NSLS ESH website. Before using a printed copy, verify that it is the most current version by checking the document issue date on the NSLS ESH website.

Job Step / Task	Hazard	Before Controls						Initial Controls	After Initial Controls					Control(s) Added to Reduce Risk	After Additional Controls					
		Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Moving load using fork truck	Being crushed/run over by moving fork truck	N	1	2	5	3	30	Qualified trained operator, audible warning on fork truck as required	1	2	5	2	20							
	Being struck by load	N	1	2	5	3	30	Qualified trained operator, load properly secured	1	2	5	2	20							
	Being crushed/struck by fork truck (tipping over)	N	1	2	5	3	30	Qualified trained operator, known weight of load,	1	2	5	2	20							
Moving load using pallet jack	Being struck by load	N	1	3	3	3	27	Safety shoes, load properly secured	1	3	3	2	18							
	Being struck by object (rolling pallet jack)	N	1	3	3	3	27	Safety shoes, inspection of rolling surface	1	3	3	2	18							
Moving load using pallet jack	Overexertion injuries – excessive lifting, pushing, pulling, holding or carrying.	N	1	3	3	3	27	Proper body position, Back safety training	1	3	3	2	18							
Moving load using engine hoist or other manual hydraulic lift	Being struck by dropped object	N	1	3	3	3	27	Safety shoes, use of assistant	1	3	3	2	18							
	Being struck by load or hoist while moving	N	1	3	3	3	27	Safety shoes, use of assistant, inspection of rolling surface	1	3	3	2	18							
	Equipment failure	N	1	3	3	3	27	Proper maintenance, inspection before use	1	3	3	2	18							

NSLS OHSAS Job Risk Assessment

The only official copy of this file is the one on-line in the NSLS ESH website. Before using a printed copy, verify that it is the most current version by checking the document issue date on the NSLS ESH website.

		Before Controls							After Initial Controls						After Additional Controls							
Job Step / Task	Hazard	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Initial Controls	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction		
Further Description of Controls Added to Reduce Risk:																						
*Risk:	0 to 20 Negligible	21 to 40 Acceptable						41 to 60 Moderate					61 to 80 Substantial					81 or greater Intolerable				